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CLAIMS

1. (Currently Amended) A method of using a diesel reforming strategy, comprising:

supplying diesel fuel to a fractional distillation device in fluid communication with a reformer, wherein the diesel fuel consists essentially of compounds having a carbon number of about C₈ to about C₂₀;

fractionally distilling said diesel fuel to produce a light fuel stream and a heavy fuel stream; and

reforming said light fuel stream in a said reformer to produce a reformat.

2. (Original) The method of Claim 1, further comprising burning said heavy fuel stream in a burner to generate thermal energy.

3. (Currently Amended) The method of Claim 219, wherein said reformer ~~is~~ comprises a steam reformer.

4 - 6. (Cancelled)

7. (Original) A method of making an apparatus for a diesel reforming strategy, comprising:

disposing a reformer in fluid communication with a fuel cell stack;

disposing said reformer in fluid communication with a fractional distillation device; and

disposing said fractional distillation device in fluid communication with a supply of fuel.

8. (Original) The method of Claim 7, further comprising disposing a burner in fluid communication with said fractional distillation device.

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9. (Currently Amended) A method of using a fuel cell system, comprising:

supplying diesel-fuel to a fractional distillation device wherein the fractional distillation device is in fluid communication with a reformer,

fractionally distilling said diesel-fuel to produce a light fuel stream and a heavy fuel stream;

reforming said light fuel stream in said reformer to produce a reformat; and

utilizing said reformat in a fuel cell stack to produce electricity.

10. (Original) The method of Claim 9, further comprising burning said heavy fuel stream in a burner to generate thermal energy.

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11. (Currently Amended) The method of Claim 920, wherein said reformer iscomprises a steam reformer.

12. (Original) A fuel cell system for diesel fuel reforming, comprising:
a means for fractionally distilling a supply of diesel fuel to produce a light fuel stream and a heavy fuel stream;

a means for reforming said light fuel stream to produce a reformat, said means for reforming disposed in fluid communication with said means for fractionally distilling; and

a means for producing electricity from said reformat, said means for producing electricity disposed in fluid communication with said means for reforming.

13. (Original) The system of Claim 12, further comprising a means for burning said heavy fuel stream disposed in fluid communication with said fractional distillation device.

14. (Original) The system of Claim 13, wherein said means for burning produces thermal energy.

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15. (Currently Amended) The system of Claim 12, wherein said means for reforming iscomprises a steam reformer.

16. (Original) The system of Claim 12, wherein said means for producing electricity is a fuel cell.

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17. (Original) The system of Claim 16, wherein said means for producing electricity is a solid oxide fuel cell.

18. (New) The method of Claim 1, wherein said diesel fuel comprises hydro-treated diesel fuel.

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19. (New) The method of Claim 1, wherein said reformer comprises an endothermic reformer.

20. (New) The method of Claim 9, wherein said reformer comprises an endothermic reformer.

21. (New) The method of Claim 9, wherein said fuel is diesel fuel comprising compounds having a carbon number of about C₈ to about C₂₀.

22. (New) The method of Claim 10, using said thermal energy in said reformer.

23. (New) A fuel system, comprising:
a reformer;
a fractional distillation device in fluid communication with a supply of fuel, and having a light fuel line in fluid communication with said reformer; and
a fuel cell stack in fluid communication with a reformat outlet from said reformer.

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24. (New) The fuel system of Claim 23, wherein said fractional distillation device further comprises a heavy fuel line in fluid communication with a burner, wherein said burner is in thermal communication with said reformer.

92 25. (New) The fuel system of Claim 23, wherein said reformer comprises an endothermic reformer.
